

# LISTING

## NEWSLETTER

Newsletter of the  
Long Island Sinclair/Time  
Users Group

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Incorporating N.Y.T.S.E.

Issue

October

1991

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XX  
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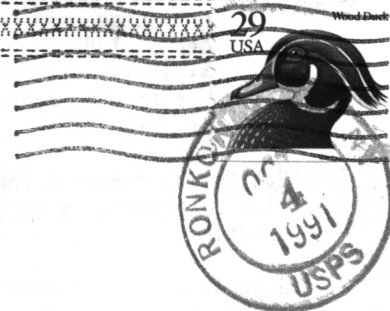
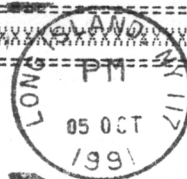
Who's Who?  
Find out inside!

Information for Inkjet users

Plus all the usual goodies!!

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L.I.S.T  
5 Peri Lane  
Valley Stream, NY  
11581



TO:

DON LAMBERT JAN/92  
1301 KIBINGER PL  
AUBURN, IN 46706-3010

FIRST CLASS MAIL  
DATED MEETING NOTICE

OCTOBER 13, 1991

# LIST OFFICERS

\*\*\*\*\*  
President.....Harvey Rait  
Treasurer.....Robert Malloy  
Cor. Sec. ....John Pazmino  
Editor.....Alvin Brandon  
Librarian.....Tom Skapinski  
\*\*\*\*\*

Please send inquiries to:

LIST

Mr. Harvey Rait

5 Peri Lane

Valley Stream, NY 11581

Please send submissions to:

Alvin Brandon

367 South 5th Street #1E

Brooklyn, NY 11211

\*\*\*\*\*

## NYTSE

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NYTSE meets the Monday after

the LIST meeting at:

Miss Kim's Restaurant

Park Avenue South

(between 21st and 22nd streets)

Meetings start at 7:30 PM

\*\*\*\*\*

## Coming Events

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October 13, 1991 at 2:00 PM:

LIST Meeting

October 14, 1991 at 7:30 PM:

NYTSE Meeting

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## Meeting Minutes

September 8, 1991

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Harvey called the meeting to

order at 2:15 PM.

Bob Malloy reported that the  
club's treasury is in good  
shape.

Suggestions and comments were  
given about last month's news  
letter from the members in  
attendance (I would like to  
thank them and all the members  
who sent back questionnaires  
last month. You know who you  
are. - Ed.).

Some of the members spoke about  
their vacations during our long  
summer break. One member went  
travelling through Eastern  
Europe and saw in two computer  
stores advertisements for Timex  
computers.

Bob Gilder then demonstrated  
the new expansion board for the  
QL called the Gold Card. It  
was described in last month's  
issue and after seeing the  
demonstration, I can tell you  
it is well worth its weight  
in Gold (pun intended).  
Details can be seen in the  
QL Corner on page 10.

## Classifieds

\*\*\*\*\*

This classified section is  
available to all LIST members  
free of charge. The only  
restriction is that it is to be  
used only for the seeking,  
selling, or swapping of  
Sinclair, Timex, or MicroAce  
computer equipment, peripherals,  
and software. LISTing, LIST,  
and its Officers do not endorse,  
warranty, or guarantee any of  
the items listed in this  
classified section.

\*\*\*\*\*

W A N T E D !

QL Flight, the flight simulator  
for the Sinclair QL.

Contact LISTing Editor,

Alvin Brandon at (718) 782-5438

as soon as possible.

I NEED this program!

Irish PCC-10 blank tapes at an  
incredibly LOW price. Call  
Tom at (516) 732-1825

## WANTED:

An alternative terminal program  
for the T/S 1000 with Byte Back  
MD-2 modem with 16k to 64k.

Is there anything other than  
ZCOMM (something that can send  
and receive upper and lower  
case characters)?

Please contact:

Joseph P. Rampolla

2638 E. Monument Street

Baltimore, MD 21205

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## Editorial

\*\*\*\*\*

Hello, again. Last month, I  
put a questionnaire in our  
newsletter. I was surprised at  
the response I got. I got lots  
and lots of suggestions, gripes  
and comments. I tried four  
different formats for this  
month's newsletter (yes, 4 complete  
and different newsletters) until  
I came up with this one. I tried  
to implement as many of the  
suggestions as I could. I am in  
the process of redesigning the  
front cover with a graphic artist  
friend of mine, as well as getting  
more pictures and graphics to  
liven up the text in our newsletter.  
These changes will take time before  
you get to see all of them, but  
they are on their way. If you have  
any more comments or suggestions,  
please feel free to call or write  
to me. I will be more than glad to  
listen, and will appreciate your  
help.

-Alvin Brandon, Editor

\*\*\*\*\*  
THE ZX-81/TS1000 COLUMN  
\*\*\*\*\*  
BY: FRED STERN  
\*\*\*\*\*

HELLO, AND WELCOME TO THE COLUMN. MANY OF YOU KNOW ME WHEN I WAS THE EDITOR OF THIS PUBLICATION. NOW I AM THE CONTRIBUTING WRITER OF THIS SECTION. BEFORE I CONTINUE, I WANT TO SET A FEW RULE WITH REGARD TO THIS COLUMN FOR ALL OF US TO FOLLOW:

(1) THIS IS NOT MY COLUMN, BUT YOURS. YOU ARE INVITED AND ENCOURAGED TO SEND INFORMATION OF INTEREST ABOUT OR FOR THE ZX-81/TS1000 COMPUTERS, OR ANY OF ITS CLONES.

(2) THIS COLUMN IS SOLELY FOR THE ZX-81/TS1000 COMPUTERS. PLEASE DO NOT SEND INFORMATION ABOUT OTHER COMPUTERS, IE, TI-99, IBM-PC, QL, TS2068.

(3) THIS COLUMN CAN BE USED IN WHOLE OR PART FOR REPUBLICATION, BUT PLEASE GIVE US DO CREDIT.

(4) ANY CONSTRUCTION PROJECTS THAT YOU BUILD FROM THIS COLUMN YOU DO AT YOUR OWN RISK. THIS WRITER AND OFFICERS OF LIST AND LISTING WILL NOT BE RESPONSIBLE FOR DAMAGE TO YOUR COMPUTER.

WHY THE INTEREST IN THE ZX-81/TS1000?

\*\*\*\*\*  
WHEN I WAS EDITOR OF LISTING, BEFORE THE MONTHLY LIST MEETING HARVEY RAIT, TOM SKAPINSKI AND I WOULD GO THROUGH THE CLUB MAIL. WE ALWAYS RECEIVED LETTERS ASKING FOR INFORMATION ABOUT THE BLACK WEDGE FROM PEOPLE WHO BOUGHT ONE AT A YARD SALE OR FLEAMARKET, OR WHO GOT ONE FROM HIS COUSIN WHEN THE COUSIN BOUGHT AN IBM.

FROM THESE LETTERS WE REALIZED THAT PEOPLE WERE STILL USING THE LITTLE COMPUTER, AND NEEDED INFORMATION ABOUT THE MACHINE. IN 1989 I PUT TOGETHER A USERS MANUAL OF SORTS CALLED THE ZX-81 AND TS1000 TECHNICAL TIDBITS. THIS DOCUMENT WAS A COMBINATION OF WHAT I CONSIDERED THE BEST ARTICLES PRINTED ABOUT THE TECHNICAL ASPECTS OF THE ZX-81/TS1000 COMPUTERS.

TECHNICAL TIDBITS WAS A BIG SUCCESS, AND CURRENTLY IN THE THIRD PRINTING. BUT MORE LETTERS WITH QUESTIONS KEPT COMING IN, SO IN 1991 TECHNICAL TIDBITS PART II WAS PUBLISHED.

LIKE PART I, PART II WAS ALSO A COMBINATION OF WHAT I CONSIDERED THE BEST ARTICLES PRINTED FOR THE ZX-81/TS1000, BUT COVERING TOPICS WHICH THE MOST QUESTIONS ARE ASKED ABOUT. QUESTIONS AS: HOW TO IMPROVE TAPE LOADING? OR HOW DOES THE RAM PACK WORK? OBVIOUSLY THERE ARE MANY USERS AROUND THE COUNTRY, AND AROUND THE WORLD STILL USING THE MACHINE. JUST HOW MANY, KNOW ONE CAN GUESS.

## PROGRAM EXCHANGE

\*\*\*\*\*  
ONE BIG PROBLEM THAT WE ZX-81 USERS HAVE IS LOCATING SOFTWARE. THERE WERE HUNDREDS OF PROGRAMS AVAILABLE AT ONE TIME FOR THESE COMPUTERS. TODAY NO-ONE SELLS THEM EVEN AS SURPLUS. I PROPOSE A TWO (2) POINT PLAN OF ACTION:

(1) WRITE ME AND LET ME KNOW WHAT VENDORS OR DISTRIBUTORS OF ZX-81/TS1000 SOFTWARE ARE STILL AVAILABLE. THIS INFORMATION WILL BE PRINTED IN AN ON-GOING LIST PRINTED EACH MONTH I LISTING.

(2) MANY OF US HARDCORE ZX-81 USERS, THROUGH THE YEARS HAVE DEVELOPED LIBRARIES OF TAPED SOFTWARE.

PERHAPS THE INFORMATION IN THESE LIBRARIES CAN BE FAIRLY SHARED. IF EACH MONTH A LIST OF PUBLIC DOMAIN SOFTWARE IN A VOLUNTEERS LIBRARY IS PRINTED IN LISTING, READERS WHO NEED A PROGRAM COULD GET IN TOUCH WITH THE VOLUNTEER TO GET A COPY.

THE READER SHOULD SEND A BLANK AUDIO CASSETTE, A SELF ADDRESSED STAMPED MAILER FOR THE CASSETTE TO THE VOLUNTEER. THE VOLUNTEER WOULD MAKE A COPY OF THE PROGRAM DESIRED ON THE BLANK CASSETTE AND RETURN IT TO THE READER IN THE S.A.S. MAILER.

ANY COMMENTS OR VOLUNTEERS?

IS HARDWARE AVAILABLE?

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IN A SINGLE WORD, YES.

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ZX-81/TS1000 COMPUTERS AND PERIPHERALS ARE AVAILABLE THROUGH USERS GROUPS SUCH AS LIST AND CATS, THROUGH THE CLASSIFIED SECTION OF NEWSLETTERS LIKE LISTING, AND PUBLICATIONS LIKE NUTS AND VOLTS, COMPUTER MONTHLY. ALSO THERE ARE A FEW HARDWARE DISTRIBUTORS STILL IN BUSINESS, SUCH AS RMG ON THE WEST COAST AND DAN ELLIOT IN MISSOURI.

## FINAL NOTES

\*\*\*\*\*  
WELL, THAT WINDS THINGS UP FOR NOW. AS I SAID EARLIER, THIS IS YOUR COLUMN. SEND YOUR COMMENTS TO ME: FRED STERN  
C/O LIST  
5 PERI LANE  
VALLEY STREAM, N.Y. 11581.

## REVIEW OF THE MIRACLE SYSTEMS GOLD CARD

Once I observed the Gold card 'in action' I realized that it was wrongfully named; I would have called it 'The Miracle Card'. The speed-up of the QL when loading a large program such as Professional Publisher was astonishing - usual loading time for this program (340K of files) is 2 minutes and 15 seconds using a Trump Card. Now it loads in just a fraction under 30 seconds!

All of my documents (ASCII files) are prepared with The Editor. On occasion I will export a text file into Quill and save it as a \_doc file for other QL readers. Anyone who has imported files into Quill knows that once Quill starts importing, it's time to go for a cup of coffee or whatever. If you have a Gold Card on order, you are in for a surprise.

A seven page text file of approximately 22K, using the extension \_exp normally takes 4 minutes, 15 seconds to import into Quill. The Gold Card imports the same file in less than 40 seconds!

I use Turbo Quill, 2.35, which is much faster than version 2.1 which was packaged with the QL. Using the up/down cursor keys scrolling through a document with the Gold Card is an amazing thing to behold. Within several seconds you've reached the bottom of the first page - and so on through the entire document. With version 2.1 it's a little slower. All of the commands respond faster and are carried out with the same speedup, especially the Copy command. Using the Gold Card, Quill now becomes a very respectable word processor.

'Conqueror', the IBM emulator, provides you with an excellent QL-IBM Clone when accompanied by the Gold Card. Conqueror loads very quickly; in approximately 30 seconds, as well as MS DOS version 3.3. Loading time for three different IBM word processors is comparable with a PC, however, I personally believe that Quill is much better and easier to use than Galaxy, The Writer and Mind Reader word processors that I've used.

Reading and writing to Disk is also very much accelerated. Sometimes I have had to wait a few seconds for the disk drives to complete the saving while the QL was ready for additional processing.

The Gold Card comes with an updated and readable version of the Trump Card manual and a three page Gold Card Supplement. This is because all of the Trump Card features have been incorporated within Gold Card operating system plus some additional features - The backup battery operated clock (what a joy!), three disk drive capability (which can be expanded to 4 drives with the Miracle Disk Drive adaptor - optional), and additional commands pertaining to disk drive and hard drive operation (I will cover these next month).

All-in-all, the Gold Card has performed as advertised. For me, no more running out of memory, no more def\_temp files when loading a large Quill document and no more time wasted waiting while importing text files into Quill.

See you next month,

Bob Gilder 9/3/91



Q\_LINK - A program review by Tim Stoddard  
(Re-printed from October 1987 LISTing with an update.)

For some time I have looked for a good terminal program for the QL that included XMODEM. I have tried one other program that had XMODEM but with unfavorable results. Q\_LINK is not only good and well thought out, but it actually works!!

The features are:

- Menu or quick-key access to commands
- XMODEM or ASCII (with XON/XOFF) file transfers
- Built in EDITOR accessible from within comm
- Alterable SER device on-the-fly
- Text in buffer is MARKable for selective uses
- Configurable Modem commands
- Auto-dial and re-dial through modem commands
- 20 user-configurable MACRO commands
- 40 phone number storage
- Multitaskable
- NO COPY PROTECTION

The one major drawback of the QL is its serial ports. I shudder whenever I look at the schematic of that section! The task is handled by two LSI chips already burdened with other functions. The receive part of the serial section is handled by an 8749 IC, which also handled the keyboard scanning. In fact, there is only ONE RECEIVE PORT! This port is shared via multiplexing the handshaking signals for the two ports. This has really caused programmers grief trying to write a good telecomm program....

Harvey Taylor's solution....

Q\_LINK is an excellent solution to the QL's telecomm dilemma. Using the MODAPTER PLUS at 300 baud worked well, as expected. The MODAPTER PLUS at 1200, however, was a flop! I then wired up a cable, as described by Harvey in his very good manual, and 1200 baud then worked. I used this cable for the remainder of my observations in this review.

Following the manual I BACKED UP THE COPY, and then added my signons, BBS numbers, and modem commands for my Hayes compatible ADC modem, to the copy of Q\_LINK. I dialed up a local BBS (MicroLink) at 1200 baud, and performed my 'normal' activities without loss of characters or garbage. So far, so good. Command access in this program is GREAT! While learning to 'get around' you can use the quick key method that exists for most commands (i.e. <CNTRL> + <SHFT> + <S> sends a file via XMODEM). Both methods co-exist so you can still use MENUS in little used areas that you might forget a month from now.

#### XMODEM

Since this is the part of the program I'm most interested in, I spent a lot of time with it. While in the local BBS I downloaded a small file via XMODEM at 1200 baud. It worked beautifully! Next, I warmed up my trusty CP/M+ based machine

and hooked up the QL directly. On the CP/M+ machine I use IMP (Improved Modem Program), which is one of the latest public domain XMODEM programs. I did a series of xfers at 300, 1200, 2400, and 9600 baud via XMODEM and ASCII xfer. The results surprised me! ASCII xfers worked in both directions at all speeds with only an occasional dropping of characters at 9600. Adding a small time delay after LF on the host (CP/M machine) cleared that up! XMODEM xfers worked in both directions and at all speeds except 9600. It is sure nice xfering a file via XMODEM at 2400! The only problem I did notice was if the QL's serial buffer overflows you'll get incomplete messages from the host. This was mentioned in the manual and the only way out is....RESET.

#### EDITOR

The built-in editor is used to manipulate the text buffer in the program. Although it doesn't have ALL the features, it does the needed job. The only thing that confused me at first was the MARK function. The manual just stated what it did, but not how to use it. To use, simply position the cursor to the start of the block to be marked and execute <CNTRL><S> (or go through the menus), then position the cursor to the end of the block to be marked and execute <CNTRL><E> (or go through the menus). Now you can use any block oriented command such as PRINT or DELETE to manipulate the marked block. It would be nice to see a visual change in the MARKed block, such as a change in the text color, so that I can easily SEE the block that is marked, HARVEY?? Printing the buffer is straight-forward although your printer must be The manual is complete and well written and although the finish is not high quality, the PROGRAM IS! I would highly recommend this program to anyone who is serious about telecomm or inter-computer xfers. It is worth twice the \$19.95 that is charged (Harvey, you didn't read that!).  
-Tim Stoddard

#### EDITOR'S NOTE:

As of the first publishing of this article, Meta Media Productions, the publishers of Q\_LINK, have released Q\_LINK version 1.556 as SHAREWARE. What this means is that copies can be passed along freely among members. If any members like the program, they can register as owners and receive:

- 1) a copy of the excellent manual,
  - 2) telephone support,
  - 3) news about updates,
  - 4) further support wares such as UNARCH, UNCRUNCH, etc.
- The cost is only \$15.00 and you will help keep one of our great Sinclair programmers interested in staying with us. Send your check or money order to:

META MEDIA PRODUCTIONS  
726 WEST 17TH  
VANCOUVER, BC.  
CANADA V5Z 1T9

-Alvin Brandon, Editor

WHO's WHO???

\*\*\*\*\* Editors Note: This is only a partial  
# list. It will be continued next  
This is a list of names, addresses and phone numbers in an# issue. If you have a Timex or Sinclair  
effort to put you in touch with the people who provide the# product or service that you wish to  
products and support you may need, and who in return need# inform people about, or if you know  
your business. Give them a call, buy a program or two. Make# about somebody who wasn't mentioned,  
some new friends, but most of all, Keep On Timexing!!! # drop me a line at the address LISTED  
\*\*\*\*\* on page 2. -Alvin Brandon, Editor

A.F.R Software  
1605 Pennsylvania Ave. #204  
Miami Beach, FL 33139  
(305)531-6464  
T/S 1000 and 2068 Software

Byte Power  
1748 Meadowview Ave.  
Pickering, Ontario  
CANADA L1V-3G8  
T/S 2068 Utilities and  
Graphics

Jack O'haneey  
390 Rutherford  
Redwood City, CA 94061  
Custom T/S 2068 Software

Ed Grey Enterprises  
PO BOX 2186  
Inglewood, CA 90305  
(213)759-7406  
T/S 2068 Software

LARKEN Electronics  
RR#2 Navan, Ontario  
CANADA K4B1H9  
(613)835-2680  
T/S 2068 Disk Drive  
hardware and software.

Frank Lockhart  
76 North Ford Rd. #31  
Mansfield, OH 44905  
Engineering, Scientific,  
and Games software

MDM Enterprises  
706 South Mason  
Saginaw, MI 48602  
(517)791-1088  
Software

John McMichael  
1710 Palmer Drive  
Laramie, WY 82070  
(307)742-4530  
T/S 2068 color printing  
software

Mountaineer Software  
749 Hill Street #6  
Parkersburg, WV 26104  
(304)424-7272  
T/S 2068 software, inc.  
Pixel Print upgrades.

John Olinger Company  
11601 Whidbey Dr.  
Cumberland, IN 46229  
T/S 2068 disk system and  
hardware devices for the  
T/S 2068 and 1000.

RMG Enterprises  
1419 1/2 7th Street  
Oregon City, OR 97045  
(503)665-7484  
The largest T/S dealer in  
the U.S. Hard/Software  
for all T/S and Sinclair QL  
computers.

Zunk Custom Electronics  
4800 E. Cedar Lane  
Norman, OK 73071  
(405)366-8595  
T/S 2068 hardware and  
software.

EMSOFT  
PO BOX 8763  
Boston, MA 02144  
(617)889-0830  
Professional QL software

Sharp's Inc.  
PO BOX 326  
Mechanicsville, VA 23111  
Hardware/Software for QL

John Hammer  
HCR1 Box 50-A  
Mellott, SD 57461  
(605)887-3250  
Repairs on all T/S computers

Eric Johnson  
249 N. Harden Ave.  
Orange City, FL 32763  
(904)775-4935  
T/S hardware and repairs  
(see Profile in next month's  
issue!)

Promise Land Electronics  
Rt. 1 Box 117  
Cabool, MO 65689  
(314)739-1712  
Repairs and custom modification  
to Timex and Sinclair QL  
computers.

# SHORT PROGRAMS FOR ALL!!!

A collection of programs for the T/S 1000, T/S 2068/Spectrum  
and Sinclair QL computers.

QL Screen dump for Gorilla Banana Printer

```
100 REMark *****
110 REMark ** SCREEN COPY ROUTINE for Gorilla Banana Printer
120 REMark ** by Gyro Byrns      takes 15 min to print
130 REMark **      sized for screen area from Peintre program
140 REMark *****
150 AT 10,10: INPUT"Screen to be loaded?";name$
160 name$="mdv2_&name$&" Qsc"
170 REMark ** change if not using Peintre which adds
      " Qsc" to screens saved."
180 MODE 4:WINDOW 512,256,0,0
190 LBYTES name$,131072
200 INPUT"PRINT THIS\" (Y/N)";I$
210 IF I$=="N":STOP:END IF
220 END IF
230 OPEN#5,ser1
240 df=131072
250 df=df+110:REMark ***** last column
      position (scan down start)
260 REMark Also changed col from 64 to 56
270 time=DATE
280 PRINT#5,CHR$(8)
290 FOR col=1 to 64
300 r$=""
310 FOR count= 1 TO 240
320 REMark Full screen would be 256 down.
      GB printer max width 480 (240)
330 t=(count*128+df)
340 incl
350 t=t+1:incl
370 a=PEEK(t)
380 a=255-a:REMark Makes inverse image
      so print is same as screen
390 IF a<128:a=a+128:REMark 7 BITS TO GB graphics
400 r$=r$&CHR$(a)
410 END DEFine incl
420 NEXT count
430 PRINT#5,r$;CHR$(0);CHR$(13);r$
440 PAN 7
450 NEXT col
460 PRINT#5,CHR$(15)\
470 PRINT#5,(DATE-time);" seconds"
480 CLOSE#5
490 REMark **easy saves of modifications **
500 DEFine PROCedure savit
510 a$="mdv2_coscrDBL"
520 DELETE a$:SAVE a$
530 END DEFine
```

Thanks to Gyro Byrns for this usefull program!!!

Program one is called Screen Wipe+. Number two is called Dissolving Display. It "hides" and "reveals" any display at random screen locations by poking attribute file according to a random list of non repeating numbers (1-704) with white ink on white paper and then with black ink on white paper.

Thanks to Roy Wisti of Voluntown, CT for these routines.

#### Program One

```
10 LET a=0: LET b=0: LET x=255: LET y=175
11 OVER 1
20 PLOT a,b: DRAW x,0: DRAW 0,y: DRAW -x,0: DRAW 0,-y
30 LET a=a+1: LET b=b+1: LET x=x-2: LET y=y-2
31 IF b>175 THEN GO TO 10
40 GO TO 20
```

#### Program Two

```
10 REM DISSOLVING DISPLAY
11 REM Programmer: Roy Wisti
20 DIM b(704)
29 REM Fill b() with 1-704 sequentially
30 FOR f=1 TO 704: LET b(f)=f: NEXT f
39 REM Swap array elements
  chosen at random. The larger
  the loop, the less sequential
  the order of the array.
40 FOR f=1 TO 500
50 LET r=RND*703+1: LET s=RND*703+1
60 LET c=b(r): LET d=b(s)
70 LET b(s)=c: LET b(r)=d
90 NEXT f: BEEP .05,1
91
94 REM Place something in
  display file (a listing or
  graphics of your choosing).
95 LIST 91
99 REM Fill attribute file
  with WHITE ink & WHITE paper
  following random order created
  in b(), "hiding" display.
100 FOR f=1 to 704
110 POKE 22528+b(f)-1,BIN 00111111: NEXT f
119 REM Do the same but with
  Black ink on WHITE paper,
  "revealing" display
120 FOR f=1 to 704
130 POKE 22528+b(f)-1,BIN 00111000: NEXT f
140 GO TO 100
```



"DRAW", a drawing program by John Herriott for ZX81 and T/S  
1000 users with the Memotech HI RES Graphics board:

```
5 REM "DRAW"
9680 PRINT "INPUT X. (MAX. 247)"
9682 INPUT X
9684 CLS
9685 PRINT "INPUT Y. (MAX. 192)"
9687 INPUT Y
9689 CLS
9700 LET V=40000 (19000 FOR 16K)
9710 LET Z$="STARCH"
9712 GOSUB 9990
9720 LET X=X
9722 LET Y=Y
9723 LET Z=0
9730 LET Z$="PLOT"
9735 GOSUB 9990
9740 IF INKEY$="5" THEN LET X=X-1
9742 IF INKEY$="8" THEN LET X=X+1
9745 IF INKEY$="6" THEN LET Y=Y-1
9747 IF INKEY$="7" THEN LET Y=Y+1
9750 IF INKEY$="0" THEN GOTO 9770
9755 GOSUB 9990
9760 GOTO 9730
9770 LET Z$="UNPLOT"
9775 GOSUB 9990
9780 IF INKEY$="5" THEN LET X=X-1
9782 IF INKEY$="8" THEN LET X=X+1
9785 IF INKEY$="6" THEN LET Y=Y-1
9787 IF INKEY$="7" THEN LET Y=Y+1
9790 IF INKEY$="0" THEN GOTO 9730
9800 GOSUB 9990
9810 GOTO 9770
9990 RAND USR 8192
9991 RETURN
```

"Ricochet" is a pattern program by James J. Hollandsworth

```
3 LET N=CODE "H"
4 LET A=CODE "E"
5 LET G=NOT PI
6 LET E=RND*VAL "4"-VAL "2"
7 LET M=RND*VAL "4"-VAL "2"
8 LET X=RND*N
9 LET Y=RND*A
10 PLOT X,Y
13 LET X=X+E
14 LET Y=Y+M
15 IF X<G THEN LET X=G
16 IF Y<G THEN LET Y=G
17 IF X>N THEN LET X=N
18 IF Y>A THEN LET Y=A
19 IF X=G OR X=N THEN LET E=-E
20 IF Y=G OR Y=A THEN LET M=-M
21 GOTO PI*PI
```

June 4, 1991

Long Island Sinclair Timex Group (LIST)  
c/o Harvey Rait  
5 Peri Lane  
Valley Stream, NY 11581

Dear Harvey Rait:

We offer refilling Deskjet black ink cartridges. Send us your empty cartridges (in their original protective packaging) and a check for \$8 per cartridge. We will return them refilled by U.S. mail to any U.S. address you specify. We will send them in a safely padded mailer.

Before returning the cartridges, we will test them on our printer. We've spent a considerable amount of time finding a suitable ink, which is also water resistant. Each cartridge can be refilled at least twice and sometimes many more times. This letter has been printed from a cartridge refilled by us.

Printers this is used for:

- HP DeskJet
- HP DeskJet Plus
- HP DeskWriter
- HP DeskJet 500

This method is a convenience for you, our customer. You don't do any messy refilling. We provide the ink and do the refilling for you, at one low price (postage and handling included).

Please note that our method of reusing cartridges is good for the environment, as well as for the pocketbook.

The life span of your cartridges is lengthened by rapid reuse of empty and refilled ink cartridges.

Send to:

Beth Kinnmark  
1860 Sherman Ave., # 2-NE  
Evanston, IL 60201-3732

If you have any questions, call (708) 475-5367.

Sincerely,

*Beth Kinnmark*

Beth Kinnmark

## LISTing Policy

Annual Dues.....\$16.00

One "Sample" copy sent upon receipt of large SASE.

Copies provided on exchange basis with other bona fide user groups.

LISTing is published monthly by LIST (Long Island Sinclair Timex) Group, a non profit users group.

### NOTE:

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